

**REMEDATION SYSTEM EVALUATION REPORT
JANUARY THROUGH MARCH 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

ATTACHMENT 5

January 2010 - Groundwater Sample Information Sheets

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>W-1</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>15.00</u> ft
Depth to product	ft
Depth to water (DTW)	<u>11.96</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>12.00</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>10.20</u>	<u>10.15</u>	<u>10.22</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1.044</u>	<u>1.043</u>	<u>1.044</u>				
D.O. (mg/L)	+/- 10%**	<u>3.50</u>	<u>3.61</u>	<u>3.78</u>				
pH	+/- 0.1	<u>6.60</u>	<u>6.60</u>	<u>6.61</u>				
ORP (mV)	+/- 10 mV**	<u>152</u>	<u>149</u>	<u>147</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>mw-163</u>	Well Location:

Monitoring Well Data	
Well Material	(<u>PVC/SS/Teflon</u>)
Inside Diameter, in.	(<u>1.246</u>)
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>19.47</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>11.80</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	x _____
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / P _____

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>16.47</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/> N
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>10.83</u>	<u>10.81</u>	<u>10.78</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1970</u>	<u>1967</u>	<u>1962</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>2.88</u>	<u>2.84</u>	<u>2.81</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>6.84</u>	<u>6.83</u>	<u>6.82</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>205</u>	<u>205</u>	<u>208</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 11:20 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-173	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	17.55 ft
Depth to product	ft
Depth to water (DTW)	13.85 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	14.55 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	10.89	10.87	10.89				
Spec. Cond (µmhos)	+/- 3%	1693	1692	1692				
D.O. (mg/L)	+/- 10%**	3.15	2.99	2.89				
pH	+/- 0.1	7.08	7.07	7.06				
ORP (mV)	+/- 10 mV**	290	290	289				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 11:40 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: _____

Date: _____

1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>mw-156</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>18.53</u> ft
Depth to product	ft
Depth to water (DTW)	<u>12.51</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Grab/Composite <input type="checkbox"/> Split Sample Duplicate (Duplicate ID: _____) <input type="checkbox"/> MS/MSD Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>15.53</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>9.65</u>	<u>7.61</u>	<u>9.65</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1721</u>	<u>1718</u>	<u>716</u>				
D.O. (mg/L)	+/- 10%**	<u>5.40</u>	<u>3.40</u>	<u>3.30</u>				
pH	+/- 0.1	<u>7.10</u>	<u>7.10</u>	<u>7.10</u>				
ORP (mV)	+/- 10 mV**	<u>310</u>	<u>312</u>	<u>312</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 11A gallons

Sample Date: 1/27/10 Sample Time: 13:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: 11A After filtration: 11A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: 11A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-151</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/24 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>18.67</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>14.25</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Grab/Composite <input type="checkbox"/> Split Sample Duplicate (Duplicate ID: _____) MS/MSD Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	x
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>15.67</u> ft
Bubbles purged from flow cell?	(Y) N
Is drawdown > 0.3 feet	(Y) N
Was passive sampling used?	Y (N)
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	_____	_____	_____	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	_____	_____	_____	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
pH	+/- 0.1	_____	_____	_____	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	_____	_____	_____	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 13:20 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Hill Rom Plating Facility <u>G.P.</u>	KEI Project #: 1227 <u>2829-E</u>
Sample I.D.: <u>MW-157</u>	Well Location:

Monitoring Well Data	
Well Material	(<u>PVC/SS/Teflon</u>)
Inside Diameter, in.	(<u>1.246</u>)
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>17.18</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>12.49</u> ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	x _____
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / P

←OR→

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>14.18</u> ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown >0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>10.39</u>	<u>10.38</u>	<u>10.31</u>	<u>10.35</u>	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1837</u>	<u>1849</u>	<u>1850</u>	<u>1849</u>	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>2.47</u>	<u>2.72</u>	<u>2.73</u>	<u>2.69</u>	_____	_____	_____
pH	+/- 0.1	<u>7.01</u>	<u>7.01</u>	<u>7.01</u>	<u>7.01</u>	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>311</u>	<u>310</u>	<u>310</u>	<u>308</u>	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 11:40 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-147AR</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>28.70</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>12.40</u> ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	<u>x</u>
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / <u>P</u>

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>25'</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y/N</u>
Was passive sampling used?	<u>Y/N</u>
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>11.73</u>	<u>12.38</u>	<u>12.56</u>	<u>12.14</u>	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1321</u>	<u>1317</u>	<u>1313</u>	<u>1370</u>	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	_____	_____	_____
pH	+/- 0.1	<u>7.71</u>	<u>7.56</u>	<u>7.44</u>	<u>7.36</u>	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>-316.4</u>	<u>-306.1</u>	<u>-305.5</u>	<u>-314.3</u>	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: .5 gallons

Sample Date: 1/27/10 Sample Time: 9:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Good needs Bolt

Signature: Alan Harper Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>mw-132R</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	19.15 ft
Depth to product	ft
Depth to water (DTW)	11.48 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B/P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16' ft
Bubbles purged from flow cell?	Y/N
Is drawdown > 0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.55	9.39	10.05	9.78	9.71		
Spec. Cond (µmhos)	+/- 3%	1100	1095	1090	1082	1074		
D.O. (mg/L)	+/- 10%**	2.16	2.10	2.33	2.25	2.28		
pH	+/- 0.1	7.10	7.10	7.09	7.07	7.07		
ORP (mV)	+/- 10 mV**	173.3	-169.7	-159.8	-155.8	-155.4		
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 15 gallons

Sample Date: 1/27/10 Sample Time: 9:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Good needs bolts

Signature: Alvin [Signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>mw-148R</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>24.55</u> ft
Depth to product	ft
Depth to water (DTW)	<u>11.32</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	<u>x</u>
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	<u>B/P</u>

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>21'</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y/N</u>
Was passive sampling used?	<u>Y/N</u>
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>7.90</u>	<u>10.84</u>	<u>10.55</u>	<u>11.66</u>			
Spec. Cond (µmhos)	+/- 3%	<u>1292</u>	<u>1279</u>	<u>1260</u>	<u>1260</u>			
D.O. (mg/L)	+/- 10%**	<u>0.31</u>	<u>0.28</u>	<u>0.10</u>	<u>0.11</u>			
pH	+/- 0.1	<u>6.83</u>	<u>6.84</u>	<u>6.83</u>	<u>6.82</u>			
ORP (mV)	+/- 10 mV**	<u>-229.8</u>	<u>-208.0</u>	<u>-25.3</u>	<u>-207.9</u>			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 15 gallons

Sample Date: 1/27/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Good needs Bolts.

Signature: Alan Hays Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW - 153</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	20.95 ft
Depth to product	ft
Depth to water (DTW)	11.50 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab Composite	
Split Sample	
Duplicate (Duplicate ID: <u>DUP - 01</u>)	
MS/MSD	
Other	

Conventional sampling	←OR→	Micropurge sampling
Height of water column (H = TD - DTW) _____ ft		Depth of pump placement (place mid-screen) <u>17.95</u> ft
Conversion value (CV)* <u>x</u>		Bubbles purged from flow cell? <u>Y/N</u>
1 Well volume = H x CV = _____ gal		Is drawdown > 0.3 feet <u>Y/N</u>
3 Well volumes = _____ gal		Was passive sampling used? <u>Y/N</u>
Purge method (B = bailer, P = pump) <u>B/P</u>		Flowrate = _____ mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.43	9.56	9.63	9.60			
Spec. Cond (µmhos)	+/- 3%	1723	1719	1719	1717			
D.O. (mg/L)	+/- 10%**	8.18	8.47	8.54	8.54			
pH	+/- 0.1	7.16	7.16	7.17	7.17			
ORP (mV)	+/- 10 mV**	-70.2	-77.1	-77.2	-77.4			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 1.5 gallons

Sample Date: 1/27/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Good

Signature: [Signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-101R</u>	Well Location:

Monitoring Well Data	
Well Material	<u>(PVC/SS/Teflon)</u>
Inside Diameter, in.	<u>(1.046)</u>
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>18.95</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>14.82</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input checked="" type="checkbox"/> Split Sample	
<input checked="" type="checkbox"/> Duplicate (Duplicate ID: <u>DUP-02</u>)	
<input checked="" type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	<u>x</u>
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	<u>B / P</u>

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>16</u> ft
Bubbles purged from flow cell?	<u>Y / N</u>
Is drawdown > 0.3 feet	<u>Y / N</u>
Was passive sampling used?	<u>Y / N</u>
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>11.03</u>	<u>11.29</u>	<u>11.30</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>886</u>	<u>886</u>	<u>886</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>2.58</u>	<u>2.47</u>	<u>2.45</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>6.73</u>	<u>6.73</u>	<u>6.73</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>-120.1</u>	<u>-121.1</u>	<u>-122.5</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 15 gallons

Sample Date: 1/27/00 Sample Time: 11:15 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Hard

Signature: Alan Harper

Date: 1-27-00

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>1W-2</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>16.97</u> ft
Depth to product	ft
Depth to water (DTW)	<u>13.3</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>13.97</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Was passive sampling used?	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>10.81</u>	<u>10.82</u>	<u>11.01</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1720</u>	<u>1719</u>	<u>1718</u>				
D.O. (mg/L)	+/- 10%**	<u>2.25</u>	<u>1.95</u>	<u>2.02</u>				
pH	+/- 0.1	<u>7.03</u>	<u>7.02</u>	<u>7.03</u>				
ORP (mV)	+/- 10 mV**	<u>417</u>	<u>417</u>	<u>416</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 10:40 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature]

Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW - 164</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>25.00</u> ft
Depth to product	ft
Depth to water (DTW)	<u>19.66</u> ft

Sample Types (circle all applicable)
<input checked="" type="checkbox"/> Monitoring Well
<input checked="" type="checkbox"/> Grab/Composite
<input type="checkbox"/> Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>22.00</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.38</u>	<u>12.40</u>	<u>12.41</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1959</u>	<u>1957</u>	<u>1948</u>				
D.O. (mg/L)	+/- 10%**	<u>1.02</u>	<u>1.02</u>	<u>1.98</u>				
pH	+/- 0.1	<u>6.96</u>	<u>6.96</u>	<u>6.96</u>				
ORP (mV)	+/- 10 mV**	<u>278</u>	<u>278</u>	<u>277</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: n/a gallons

Sample Date: 1/27/10

Sample Time: 14:20 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: n/a After filtration: n/a

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: n/a

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-151</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	18.90 ft
Depth to product	ft
Depth to water (DTW)	13.50 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B <input checked="" type="checkbox"/> P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16' ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Was passive sampling used?	<input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	10.29	11.03	11.85	12.26			
Spec. Cond (µmhos)	+/- 3%	920	921	918	921			
D.O. (mg/L)	+/- 10%**	2.05	1.32	0.91	0.78			
pH	+/- 0.1	6.80	6.77	6.75	6.74			
ORP (mV)	+/- 10 mV**	-178.9	-177.1	-174.3	-173.9			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 5 gallons

Sample Date: 1/27/10 Sample Time: 17:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES ☒ NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK needs BOTO

Signature: Alan Hunter Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-152</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2/4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>18.75</u> ft
Depth to product	ft
Depth to water (DTW)	<u>13.95</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / <u>P</u>

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>16'</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y/N</u>
Was passive sampling used?	<u>Y/N</u>
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.32</u>	<u>12.83</u>	<u>13.03</u>				
Spec. Cond (µmhos)	+/- 3%	<u>526</u>	<u>536</u>	<u>526</u>				
D.O. (mg/L)	+/- 10%**	<u>0.98</u>	<u>0.95</u>	<u>0.94</u>				
pH	+/- 0.1	<u>6.93</u>	<u>6.93</u>	<u>6.93</u>				
ORP (mV)	+/- 10 mV**	<u>-141.6</u>	<u>-141.6</u>	<u>-141.6</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: .5 gallons

Sample Date: 1/27/10 Sample Time: 1300 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: BAD

Signature: Alan Hansen Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-133R</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 1/4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>16.1</u> ft
Depth to product	ft
Depth to water (DTW)	<u>9.72</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B <u>(P)</u>

←OR→

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>13</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y(N)</u>
Was passive sampling used?	<u>Y(N)</u>
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>10.45</u>	<u>10.65</u>	<u>10.86</u>	<u>11.04</u>	<u>11.06</u>		
Spec. Cond (µmhos)	+/- 3%	<u>1151</u>	<u>1149</u>	<u>1147</u>	<u>1146</u>	<u>1146</u>		
D.O. (mg/L)	+/- 10%**	<u>3.89</u>	<u>3.68</u>	<u>3.53</u>	<u>3.40</u>	<u>3.30</u>		
pH	+/- 0.1	<u>6.81</u>	<u>6.80</u>	<u>6.79</u>	<u>6.79</u>	<u>6.79</u>		
ORP (mV)	+/- 10 mV**	<u>-77.7</u>	<u>-80.7</u>	<u>-82.0</u>	<u>-82.2</u>	<u>-84.2</u>		
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 5 gallons

Sample Date: 1-27-10

Sample Time: 13:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: Needs Bolts

Signature: Alan L. Lujan

Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 146	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.40 ft
Depth to product	ft
Depth to water (DTW)	9.80 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	20' ft
Bubbles purged from flow cell?	Y/N
Is drawdown > 0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	10.94	10.14	9.66	9.58	9.30	9.21	
Spec. Cond (µmhos)	+/- 3%	1040	1048	1044	1041	1032	1025	
D.O. (mg/L)	+/- 10%**	1.29	0	0	0	0	0	
pH	+/- 0.1	6.38	6.57	6.57	6.57	6.58	6.58	
ORP (mV)	+/- 10 mV**	135.3	-177.4	-187.6	-190.3	-192.3	-192.4	
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 15 gallons

Sample Date: 1/27/10 Sample Time: 14:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK Needs Bolts 9/10

Signature: Alan Harmon Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-302</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	<u>54.20</u> 31.90 ft
Depth to product	ft
Depth to water (DTW)	<u>13.23</u> 12.60 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>51.20</u> ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown > 0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>11.70</u>	<u>11.71</u>	<u>11.69</u>				
Spec. Cond (µmhos)	+/- 3%	<u>648</u>	<u>648</u>	<u>649</u>				
D.O. (mg/L)	+/- 10%**	<u>0</u>	<u>0</u>	<u>0</u>				
pH	+/- 0.1	<u>7.17</u>	<u>7.17</u>	<u>7.17</u>				
ORP (mV)	+/- 10 mV**	<u>-241.5</u>	<u>-245.1</u>	<u>-246.1</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 14:20 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-160</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.246)
Stick up or stick down height	ft
Total depth of well (TD)	13.50 ft
Depth to product	ft
Depth to water (DTW)	3.65 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B (P)

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	11.50 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown >0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.78	12.29	11.88				
Spec. Cond (µmhos)	+/- 3%	1750	1745	1747				
D.O. (mg/L)	+/- 10%**	0	0	0				
pH	+/- 0.1	6.67	6.67	6.67				
ORP (mV)	+/- 10 mV**	-300.8	-300.5	-300.2				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: .5 gallons

Sample Date: 1/27/10 Sample Time: 14:40 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid) <

Well condition: new water back

Signature: Alan Hanson

Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-161	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	13.95 ft
Depth to product	ft
Depth to water (DTW)	5.28 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

←OR→

Micropurge sampling	
Depth of pump placement (place mid-screen)	ft
Bubbles purged from flow cell?	Y / N
Is drawdown > 0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	8.30	8.74	8.75				
Spec. Cond (µmhos)	+/- 3%	990	986	986				
D.O. (mg/L)	+/- 10%**	0.85	0.83	0.82				
pH	+/- 0.1	6.61	6.59	6.59				
ORP (mV)	+/- 10 mV**	-62.1	-60.7	-60.2				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: 15 gallons

Sample Date: 1/27/10 Sample Time: 15:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: _____ After filtration: _____

Reaction upon addition of preservatives? YES NO explain: _____

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: New needs work

Signature: Allen Harmon Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-1695</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1.046)
Stick up or stick down height	ft
Total depth of well (TD)	<u>23.40</u> ft
Depth to product	ft
Depth to water (DTW)	<u>20.40</u> ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>20.40</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y/N</u>
Was passive sampling used?	<u>Y/N</u>
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>13.31</u>	<u>13.35</u>	<u>13.36</u>	<u>13.34</u>			
Spec. Cond (µmhos)	+/- 3%	<u>1.091</u>	<u>1.086</u>	<u>1.085</u>	<u>1.085</u>			
D.O. (mg/L)	+/- 10%**	<u>1.37</u>	<u>1.19</u>	<u>1.07</u>	<u>1.99</u>			
pH	+/- 0.1	<u>6.54</u>	<u>6.54</u>	<u>6.53</u>	<u>6.53</u>			
ORP (mV)	+/- 10 mV**	<u>238</u>	<u>236</u>	<u>234</u>	<u>233</u>			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear Slightly Turbid/Turbid/Very Turbid)

Well condition: OK needs lid on well

Signature: [Signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-169D	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	34.90 ft
Depth to product	ft
Depth to water (DTW)	20.48 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

←OR→

Micropurge sampling	
Depth of pump placement (place mid-screen)	31.90 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	<input checked="" type="checkbox"/> Y
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.94	13.90	13.85	13.85	13.79		
Spec. Cond (µmhos)	+/- 3%	1.057	1.053	1.051	1.050	1.071		
D.O. (mg/L)	+/- 10%**	.44	.39	.33	.32	.30		
pH	+/- 0.1	6.85	6.87	6.89	6.89	6.90		
ORP (mV)	+/- 10 mV**	313	300	297	298	275		
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: ok needs lid on well

Signature: [Signature]

Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW - 167 S</u>	Well Location:

Monitoring Well Data	
Well Material	<u>(PVC/SS/Teflon)</u>
Inside Diameter, in.	<u>(1 2 4 6)</u>
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>22.00</u> ft
Depth to product	_____ ft
Depth to water (DTW)	<u>18.56</u> ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
<input checked="" type="checkbox"/> Duplicate (Duplicate ID: <u>167 S</u>)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	x _____
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	B / P _____

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>19.00</u> ft
Bubbles purged from flow cell?	<u>Y/N</u>
Is drawdown > 0.3 feet	<u>Y/N</u>
Was passive sampling used?	<u>Y/N</u>
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.44</u>	<u>14.45</u>	<u>14.40</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1.75</u>	<u>1.75</u>	<u>1.74</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>1.54</u>	<u>1.34</u>	<u>1.25</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>6.71</u>	<u>6.70</u>	<u>6.70</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>352</u>	<u>351</u>	<u>351</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 13:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 167 D	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	32.35 ft
Depth to product	ft
Depth to water (DTW)	18.75 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
<input checked="" type="checkbox"/> Duplicate (Duplicate ID: <u>DMP-03</u>)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	29.35 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	15.2	15.19	15.17	15.18			
Spec. Cond (µmhos)	+/- 3%	975	975	977	977			
D.O. (mg/L)	+/- 10%**	1.22	1.14	1.12	1.116			
pH	+/- 0.1	7.11	7.11	7.11	7.10			
ORP (mV)	+/- 10 mV**	180	174	174	174			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 13:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-1665	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2) 4 6
Stick up or stick down height	ft
Total depth of well (TD)	19.70 / 19.20 ft
Depth to product	ft
Depth to water (DTW)	14.15 / 14.97 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16.20 ft
Bubbles purged from flow cell?	<input checked="" type="radio"/> Y / <input type="radio"/> N
Is drawdown > 0.3 feet	<input checked="" type="radio"/> Y / <input type="radio"/> N
Was passive sampling used?	<input type="radio"/> Y / <input checked="" type="radio"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	6.78	6.79	6.79	6.78			
Spec. Cond (µmhos)	+/- 3%	1,251	1,249	1,249	1,252			
D.O. (mg/L)	+/- 10%**	1.73	1.60	1.61	1.59			
pH	+/- 0.1	7.29	7.29	7.28	7.29			
ORP (mV)	+/- 10 mV**	161	153	152	153			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 14:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature]

Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>MW-165D</u>	Well Location:

Monitoring Well Data	
Well Material	<u>(PVC/SS/Teflon)</u>
Inside Diameter, in.	<u>(1/2) 4 6</u>
Stick up or stick down height	_____ ft
Total depth of well (TD)	<u>46.50</u> 44.65 ft
Depth to product	_____ ft
Depth to water (DTW)	<u>13.95</u> 14.74 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
<input type="checkbox"/> MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	_____ ft
Conversion value (CV)*	<u>x</u>
1 Well volume = H x CV	= _____ gal
3 Well volumes =	= _____ gal
Purge method (B = bailer, P = pump)	<u>B / P</u>

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>43.5</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was passive sampling used?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Flowrate =	_____ mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>11.2</u>	<u>11.48</u>	<u>11.51</u>	<u>11.53</u>			
Spec. Cond (µmhos)	+/- 3%	<u>.761</u>	<u>.767</u>	<u>.771</u>	<u>.773</u>			
D.O. (mg/L)	+/- 10%**	<u>1.30</u>	<u>1.23</u>	<u>1.17</u>	<u>1.16</u>			
pH	+/- 0.1	<u>7.24</u>	<u>7.24</u>	<u>7.24</u>	<u>7.24</u>			
ORP (mV)	+/- 10 mV**	<u>185</u>	<u>171</u>	<u>160</u>	<u>165</u>			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2 / 3 / 10

Sample Time: 14 : 00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D. <u>AW-665</u>	Well Location:

Monitoring Well Data	
Well Material	<u>(PVC/SS/Teflon)</u>
Inside Diameter, in.	<u>(2.46)</u>
Stick up or stick down height	ft
Total depth of well (TD)	<u>19.20</u> 19.70 ft
Depth to product	ft
Depth to water (DTW)	<u>14.97</u> 14.15 ft

Sample Types (circle all applicable)	
<input checked="" type="checkbox"/> Monitoring Well	
<input checked="" type="checkbox"/> Grab/Composite	
<input type="checkbox"/> Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>16.20</u> ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Was passive sampling used?	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.12</u>	<u>14.74</u>	<u>14.73</u>	<u>14.72</u>			
Spec. Cond (µmhos)	+/- 3%	<u>1137</u>	<u>1939</u>	<u>1940</u>	<u>1941</u>			
D.O. (mg/L)	+/- 10%**	<u>.56</u>	<u>.54</u>	<u>.51</u>	<u>.51</u>			
pH	+/- 0.1	<u>7.02</u>	<u>7.02</u>	<u>7.02</u>	<u>7.02</u>			
ORP (mV)	+/- 10 mV**	<u>203</u>	<u>204</u>	<u>201</u>	<u>203</u>			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

* Eg. Blank 1600

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 15:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature]

Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G > P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: <u>11W-166D</u>	Well Location:

Monitoring Well Data	
Well Material	<u>(PVC/SS/Teflon)</u>
Inside Diameter, in.	<u>(1.046)</u>
Stick up or stick down height	ft
Total depth of well (TD)	<u>49.65</u> 46.50 ft
Depth to product	ft
Depth to water (DTW)	<u>14.74</u> 13.95 ft

Sample Types (circle all applicable)	
Monitoring Well	<input checked="" type="checkbox"/>
Grab/Composite	<input checked="" type="checkbox"/>
Split Sample	<input type="checkbox"/>
Duplicate (Duplicate ID: _____)	<input type="checkbox"/>
MS/MSD	<input type="checkbox"/>
Other _____	<input type="checkbox"/>

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>46.65</u> 43.50 ft
Bubbles purged from flow cell?	<input checked="" type="checkbox"/> N
Is drawdown > 0.3 feet	<input checked="" type="checkbox"/> N
Was passive sampling used?	<input checked="" type="checkbox"/> Y
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.45</u>	<u>14.44</u>	<u>14.44</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1954</u>	<u>1986</u>	<u>1987</u>				
D.O. (mg/L)	+/- 10%**	<u>1.29</u>	<u>1.21</u>	<u>1.19</u>				
pH	+/- 0.1	<u>7.18</u>	<u>7.18</u>	<u>7.15</u>				
ORP (mV)	+/- 10 mV**	<u>124</u>	<u>120</u>	<u>119</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 2/3/10 Sample Time: 15:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 2/3/10